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添付公開書類:
— 國際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54)Title: POLYETHYLENE TEREPHTHALATE FOR MOLDING AND PROCESS FOR PRODUCING THE SAME

(54)発明の名称: 成形用ポリエチレンテレフタレートおよびその製造方法

(57)Abstract: A process for producing polyethylene terephthalate for molding which has a reduced cyclic trimer content. The process for producing polyethylene terephthalate for molding comprises (1) a condensation step in which bis(2-hydroxyethyl) terephthalate having an ion content of 10 ppm or lower and an acid value of 30 mg-KOH/g or lower is condensed to form an oligomer having an average degree of polymerization of 4 to 10, (2) a melt polymerization step in which the oligomer is melt-polymerized to obtain a prepolymer having an intrinsic viscosity of 0.50 to 0.65, and (3) a solid-phase polymerization step in which pellets of the prepolymer are crystallized and then polymerized at 190 to 230°C by solid-phase polymerization to produce polyethylene terephthalate having an intrinsic viscosity of 0.65 or higher. Also provided is polyethylene terephthalate for molding which has been obtained by the process and has specific properties.

(57)要約: 本発明は、環状三量体の含有量の少ない成形用ポリエチレンテレフタレートを製造する方法を提供することを目的とする。本発明は、(1)イオン含有量が10ppm以下、酸価が30mgKOH/g以下であるビス(2-ヒドロキシエチル)テレフタレートを縮合させて平均重合度4~10のオリゴマーとする縮合工程、(2)該オリゴマーを溶融重合させて固有粘度0.50~0.65のプレポリマーとする溶融重合工程、および(3)該プレポリマーのペレットを結晶化させてから190~230°Cの温度で固相重合させ、固有粘度が0.65以上であるポリエチレンテレフタレートとする固相重合工程、からなる成形用ポリエチレンテレフタレートの製造方法およびかかる方法により得られる特定の性質を有する成形用ポリエチレンテレフタレートである。

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/014777

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ C08G63/80, C08G63/183

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C08G63/00-63/91

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-2004	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-47340 A (Mitsubishi Chemical Corp.), 12 February, 2002 (12.02.02), Claim 1; Par. Nos. [0015], [0041], [0042], [0049] (Family: none)	1-12

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search
22 October, 2004 (22.10.04)Date of mailing of the international search report
09 November, 2004 (09.11.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

ATTACHMENT F